

IAP10 Rec'd PCT/P10 14 DEC 2005

# 6

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:

PATENT  
Attorney Docket No.: 020174-008610US

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

On December 9, 2005

TOWNSEND and TOWNSEND and CREW LLP

By: Nina L. McNeill  
Nina L. McNeill

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:

Manger, Ian et al.

Application No.: 10/517,942 ✓

Filed:

For: RECIRCULATING FLUIDIC NETWORK  
AND METHODS FOR USING THE SAME

Customer No.: 20350

Examiner: Not Known

Technology Center/Art Unit: Not  
Known

**COMMUNICATION**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

A review of PAIR on December 8, 2005 seems to indicate that the Patent and Trademark Office has not entered the Response to Notification of Missing Requirements filed for the above application on August 2, 2005.

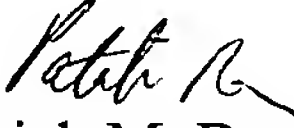
Manger, Ian et al.  
Appl. No. 10/517,942  
Page 2

PATENT

Copies of the Declaration, Power of Attorney, Statement Under 37 CFR 3.73(b), Copy of the Electronically Filed Assignment and PTO Copy of Notification of Missing Parts are attached. Also attached is a copy of the stamped postcard returned from the Patent Office indicating that these documents were originally received on August 8, 2005.

It is respectfully requested that these documents be entered and an Updated Filing Receipt be issued by the Patent Office.

Respectfully submitted,

  
Patrick M. Boucher  
Reg. No. 44,037

TOWNSEND AND TOWNSEND AND CREW LLP  
Two Embarcadero Center, 8th Floor  
San Francisco, CA 94111-3834  
Tel: 303-571-4000  
Fax: 415-576-0300

PMB/nlm  
Attachments

60654541



PCT

PTO/SB/21 (09-04)

# TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number	10/517,942
Filing Date	
First Named Inventor	Manger, Ian D.
Art Unit	Not yet known
Examiner Name	Not yet known
Attorney Docket Number	020174-008610US

## ENCLOSURES (Check all that apply)

- |  |   |   |
|--|---|---|
| <input type="checkbox"/> Fee Transmittal Form<br><input type="checkbox"/> Fee Attached<br><input type="checkbox"/> Amendment/Reply<br><input type="checkbox"/> After Final<br><input type="checkbox"/> Affidavits/declaration(s)<br><input type="checkbox"/> Extension of Time Request<br><input type="checkbox"/> Express Abandonment Request<br><input type="checkbox"/> Information Disclosure Statement<br><br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><input type="checkbox"/> Reply to Missing Parts/ Incomplete Application<br><input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s)<br><input type="checkbox"/> Licensing-related Papers<br><input type="checkbox"/> Petition<br><input type="checkbox"/> Petition to Convert to a Provisional Application<br><input type="checkbox"/> Power of Attorney, Revocation<br>Change of Correspondence Address<br><input type="checkbox"/> Terminal Disclaimer<br><input type="checkbox"/> Request for Refund<br><input type="checkbox"/> CD, Number of CD(s) _____<br><input type="checkbox"/> Landscape Table on CD | <input type="checkbox"/> After Allowance Communication to TC<br><input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences<br><input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)<br><input type="checkbox"/> Proprietary Information<br><input type="checkbox"/> Status Letter<br><input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):<br>Communication<br>Return Postcard |
|--|---|---|

Remarks The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430.

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Townsend and Townsend and Crew LLP		
Signature			
Printed name	Patrick M. Boucher		
Date	December 9, 2005	Reg. No.	44,037

## CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Signature			
Typed or printed name	Nina L. McNeill	Date	December 9, 2005

Mail Stop Missing Parts  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

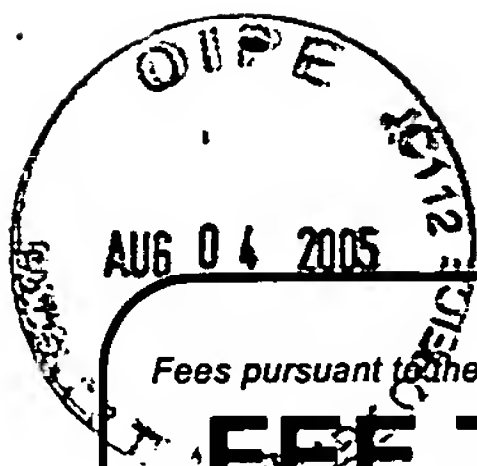
Please stamp the date of receipt of the following document(s):

For: RECIRCULATING FLUIDIC NETWORK AND METHODS FOR USING THE SAME

1. Transmittal Form
2. Fee Transmittal
3. Declaration
4. Power of Attorney
5. Statement Under 37 CFR 3.73(b)
6. Copy of Electronically Filed Assignment
7. PTO Copy of Notification of Missing Requirements

Appl. No. 10/517,942  
Date Mailed: August 2, 2005  
Attorney Ref. No. 020174-008610US  
Atty/Sec: PMB/nlm (Den)





Effective on 12/08/2004.  
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

# FEE TRANSMITTAL

## For FY 2005

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 65

### Complete if Known

Application Number	10/517,942
Filing Date	
First Named Inventor	Manger, Ian D.
Examiner Name	Not yet known
Art Unit	Not yet known
Attorney Docket No.	020174-008610US

### METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): \_\_\_\_\_

☒ Deposit Account Deposit Account Number: 20-1430 Deposit Account Name: Townsend and Townsend and Crew LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee

☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038

### FEE CALCULATION

#### 1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

#### 2. EXCESS CLAIM FEES

Fee Description	Small Entity	
	Fee (\$)	Fee (\$)
Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent	50	25
Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent	200	100
Multiple dependent claims	360	180

Total Claims      Extra Claims      Fee (\$)      Fee Paid (\$)      Multiple Dependent Claims  
-20 or HP = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_      Fee (\$)      Fee Paid (\$)

HP = highest number of total claims paid for, if greater than 20  
Indep. Claims      Extra Claims      Fee (\$)      Fee Paid (\$)  
-3 or HP = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

HP = highest number of independent claims paid for, if greater than 3

#### 3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets      Extra Sheets      Number of each additional 50 or fraction thereof      Fee (\$)      Fee Paid (\$)  
- 100 = \_\_\_\_\_ - / 50 = \_\_\_\_\_ (round up to a whole number) x \_\_\_\_\_ = \_\_\_\_\_

#### 4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount) \_\_\_\_\_  
Other: Late Declaration Surcharge \_\_\_\_\_ 65

### SUBMITTED BY

Signature		Registration No. (Attorney/Agent) 44,037	Telephone 303-571-4000
Name (Print/Type)	Patrick M. Boucher		Date August 2, 2005



500Z 9 Z 700  
**UNITED STATES PATENT AND TRADEMARK OFFICE**

020174-008610US  
 PMB, DE  
 JUL 26 2005  
 UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
 Address: COMMISSIONER FOR PATENTS  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
 www.uspto.gov

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/517,942	Ian D Manger	20174-008610US

INTERNATIONAL APPLICATION NO.

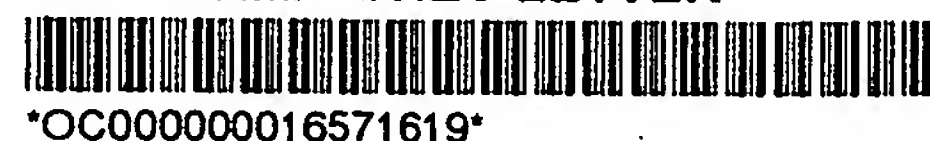
PCT/US03/19775

I.A. FILING DATE	PRIORITY DATE
06/23/2003	06/24/2002

20350  
 TOWNSEND AND TOWNSEND AND CREW, LLP  
 TWO EMBARCADERO CENTER  
 EIGHTH FLOOR  
 SAN FRANCISCO, CA 94111-3834

CONFIRMATION NO. 4959

371 FORMALITIES LETTER



\*OC000000016571619\*

*Response Due 09/21/05*

Date Mailed: 07/21/2005

### NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Indication of Small Entity Status
- Copy of the International Application filed on 12/13/2004
- Copy of the International Search Report filed on 12/13/2004
- Preliminary Amendments filed on 12/13/2004
- Information Disclosure Statements filed on 03/07/2005
- Oath or Declaration filed on 12/13/2004
- Request for Immediate Examination filed on 12/13/2004
- U.S. Basic National Fees filed on 12/13/2004
- Priority Documents filed on 12/13/2004

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date. The current oath or declaration does not comply with 37 CFR 1.497(a) and (b) in that it:
  - is not executed in accordance with either 37 CFR 1.66 or 37 CFR 1.68.
- \$65 Surcharge for providing the oath or declaration later than 30 months from the priority date (37 CFR 1.492(e)) is required.

#### SUMMARY OF FEES DUE:

Total additional fees required for this application is \$65 for a Small Entity:

BAC

- \$65 Late oath or declaration Surcharge.

**ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.**

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

SHAKEEL AHMED

Telephone: (703) 308-9140 EXT 208

**PART 1 - ATTORNEY/APPLICANT COPY**

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/517,942	PCT/US03/19775	20174-008610US

FORM PCT/DO/EO/905 (371 Formalities Notice)



**DECLARATION**

As a below named inventor, I declare that:

My residence, post office address and citizenship are as stated below next to my name; I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: RECIRCULATING FLUIDIC NETWORK AND METHODS FOR USING THE SAME, and assigned Application No. 10/517,942.

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56. I claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below:

Application No.	Filing Date

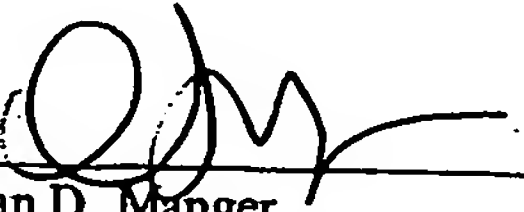
I claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application No.	Date of Filing	Status
PCT/US2003/019775	23 June 2003 (23.06.03)	

Full Name of Inventor 1:	Last Name: <b>Manger</b>	First Name: <b>Ian</b>	Middle Name or Initial: <b>D.</b>	
Residence & Citizenship:	City: <b>San Francisco</b>	State/Foreign Country: <b>California</b>	Country of Citizenship: <b>GB</b>	
Post Office Address:	Post Office Address: <b>236 Dorland Street</b>	City: <b>San Francisco</b>	State/Country: <b>US</b>	Postal Code: <b>94114</b>
Full Name of Inventor 2:	Last Name: <b>Barco</b>	First Name: <b>Joseph</b>	Middle Name or Initial: <b>W.</b>	
Residence & Citizenship:	City: <b>San Francisco</b>	State/Foreign Country: <b>California</b>	Country of Citizenship: <b>US</b>	
Post Office Address:	Post Office Address: <b>90 Parkridge Drive, Apt. 8</b>	City: <b>San Francisco</b>	State/Country: <b>US</b>	Postal Code: <b>94141</b>
Full Name of Inventor 3:	Last Name: <b>Nassef</b>	First Name: <b>Hany</b>	Middle Name or Initial: <b>R.</b>	
Residence & Citizenship:	City: <b>San Mateo</b>	State/Foreign Country: <b>California</b>	Country of Citizenship: <b>US</b>	
Post Office Address:	Post Office Address: <b>1857 Nash Drive</b>	City: <b>San Mateo</b>	State/Country: <b>US</b>	Postal Code: <b>94401</b>



I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

<p>Signature of Inventor 1</p>  <p>Ian D. Manger</p>	<p>Signature of Inventor 2</p> <p>Joseph W. Barco</p>	<p>Signature of Inventor 3</p> <p>Hany R. Nassaf</p>
<p>Date: 7/18/2005</p>	<p>Date:</p>	<p>Date:</p>

60375094 v1

**DECLARATION**

As a below named inventor, I declare that:

My residence, post office address and citizenship are as stated below next to my name; I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: RECIRCULATING FLUIDIC NETWORK AND METHODS FOR USING THE SAME, and assigned Application No. 10/517,942.

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56. I claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below:




Application No.	Filing Date

I claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application No.	Date of Filing	Status
PCT/US2003/019775	23 June 2003 (23.06.03)	

Full Name of Inventor 1:	Last Name: <b>Manger</b>	First Name: <b>Ian</b>	Middle Name or Initial: <b>D.</b>	
Residence & Citizenship:	City: <b>Bronxville</b>	State/Foreign Country: <b>New York</b>	Country of Citizenship: <b>GB</b>	
Post Office Address:	Post Office Address: <b>64 Kensington Road, Apt. 3B</b>	City: <b>Bronxville</b>	State/Country: <b>US</b>	Postal Code: <b>10708</b>
Full Name of Inventor 2:	Last Name: <b>Barco</b>	First Name: <b>Joseph</b>	Middle Name or Initial: <b>W.</b>	
Residence & Citizenship:	City: <b>San Jose</b>	State/Foreign Country: <b>California</b>	Country of Citizenship: <b>US</b>	
Post Office Address:	Post Office Address: <b>2341 Bailey Avenue</b>	City: <b>San Jose</b>	State/Country: <b>US</b>	Postal Code: <b>95128</b>
Full Name of Inventor 3:	Last Name: <b>Nassef</b>	First Name: <b>Hany</b>	Middle Name or Initial: <b>R.</b>	
Residence & Citizenship:	City: <b>San Mateo</b>	State/Foreign Country: <b>California</b>	Country of Citizenship: <b>US</b>	
Post Office Address:	Post Office Address: <b>1857 Nash Drive</b>	City: <b>San Mateo</b>	State/Country: <b>US</b>	Postal Code: <b>94401</b>

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature of Inventor 1	Signature of Inventor 2	Signature of Inventor 3
		
Ian D. Manger	Joseph W. Barco	Hany R. Nassaf
Date:	Date: 5/24/05	Date:

60375094 v1

**DECLARATION**

As a below named inventor, I declare that:

My residence, post office address and citizenship are as stated below next to my name; I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: RECIRCULATING FLUIDIC NETWORK AND METHODS FOR USING THE SAME, and assigned Application No. 10/517,942.

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56. I claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below:




Application No.	Filing Date

I claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application No.	Date of Filing	Status
PCT/US2003/019775	23 June 2003 (23.06.03)	

Full Name of Inventor 1:	Last Name: <b>Manger</b>	First Name: <b>Ian</b>	Middle Name or Initial: <b>D.</b>
Residence & Citizenship:	City: <b>Bronxville</b>	State/Foreign Country: <b>New York</b>	Country of Citizenship: <b>GB</b>
Post Office Address:	Post Office Address: <b>64 Kensington Road, Apt. 3B</b>	City: <b>Bronxville</b>	State/Country: <b>US</b>
			Postal Code: <b>10708</b>
Full Name of Inventor 2:	Last Name: <b>Barco</b>	First Name: <b>Joseph</b>	Middle Name or Initial: <b>W.</b>
Residence & Citizenship:	City: <b>San Jose</b>	State/Foreign Country: <b>California</b>	Country of Citizenship: <b>US</b>
Post Office Address:	Post Office Address: <b>2341 Bailey Avenue</b>	City: <b>San Jose</b>	State/Country: <b>US</b>
			Postal Code: <b>95128</b>
Full Name of Inventor 3:	Last Name: <b>Nassef</b>	First Name: <b>Hany</b>	Middle Name or Initial: <b>R.</b>
Residence & Citizenship:	City: <b>San Mateo</b>	State/Foreign Country: <b>California</b>	Country of Citizenship: <b>US</b>
Post Office Address:	Post Office Address: <b>1857 Nash Drive</b>	City: <b>San Mateo</b>	State/Country: <b>US</b>
			Postal Code: <b>94401</b>

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature of Inventor 1	Signature of Inventor 2	Signature of Inventor 3
		
Ian D. Manger	Joseph W. Barco	Hany R. Nassaf
Date:	Date:	Date: 5/27/05

60375094 vi

Please type a plus sign (+) inside this box → +

PTO/SB/81 (02-01)

Approved for use through 10/31/2002. OMB 0651-0035

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>POWER OF ATTORNEY OR AUTHORIZATION OF AGENT</b>	<b>Application Number</b>	10/517,942
	<b>Filing Date</b>	
	<b>First Named Inventor</b>	Manger, Ian D.
	<b>Title</b>	RECIRCULATING FLUIDIC NETWORK AND METHODS FOR USING THE SAME
	<b>Group Art Unit</b>	
	<b>Examiner Name</b>	
	<b>Attorney Docket Number</b>	020174-008610US

I hereby appoint:

☒ Practitioners at Customer Number 20350 → Place Customer  
Number Bar Code  
Label here

**OR**

☐ Practitioner(s) named below:

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

☒ The above-mentioned Customer Number.

**OR**

☐ Practitioners at Customer Number 20350 →

<input type="checkbox"/> Firm or Individual Name					
Address					
Address					
City		State		ZIP	
Country					
Telephone		Fax			

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.

Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

**SIGNATURE of Applicant or Assignee of Record**

<b>Name</b>	Gajus Worthington
<b>Signature</b>	<i>Gajus Worthington</i>
<b>Date</b>	7/26/05

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

☐ \*Total of    form is submitted.

**STATEMENT UNDER 37 CFR 3.73(b)**

Applicant/Patent Owner: Ian D. Manger et al.

Application No./Patent No.: 10/517,942 Filed/Issue Date: \_\_\_\_\_

Entitled: RECIRCULATING FLUIDIC NETWORK AND METHODS FOR USING THE SAME

Fluidigm Corporation, a corporation  
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of an undivided part interest

in the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☐ Copies of assignments or other documents in the chain of title are attached.

**[NOTE:** A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.8]

The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the assignee.

2005 August 2  
Date

Patrick M. Boucher  
Signature

Patrick M. Boucher (Reg. No. 44,037)

Typed or printed name

Attorney of Record

Title



**PATENT ASSIGNMENT**

Electronic Version v1.1

Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT										
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT										
<b>CONVEYING PARTY DATA</b>											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Ian D. Manger</td><td>07/18/2005</td></tr><tr><td>Joseph W. Barco</td><td>05/24/2005</td></tr><tr><td>Hany R. Nassef</td><td>05/27/2005</td></tr></tbody></table>	Name	Execution Date	Ian D. Manger	07/18/2005	Joseph W. Barco	05/24/2005	Hany R. Nassef	05/27/2005			
Name	Execution Date										
Ian D. Manger	07/18/2005										
Joseph W. Barco	05/24/2005										
Hany R. Nassef	05/27/2005										
<b>RECEIVING PARTY DATA</b>											
<table border="1"><tr><td><b>Name:</b></td><td>Fluidigm Corporation</td></tr><tr><td><b>Street Address:</b></td><td>7100 Shoreline Court</td></tr><tr><td><b>City:</b></td><td>South San Francisco</td></tr><tr><td><b>State/Country:</b></td><td>CALIFORNIA</td></tr><tr><td><b>Postal Code:</b></td><td>94080</td></tr></table>	<b>Name:</b>	Fluidigm Corporation	<b>Street Address:</b>	7100 Shoreline Court	<b>City:</b>	South San Francisco	<b>State/Country:</b>	CALIFORNIA	<b>Postal Code:</b>	94080	
<b>Name:</b>	Fluidigm Corporation										
<b>Street Address:</b>	7100 Shoreline Court										
<b>City:</b>	South San Francisco										
<b>State/Country:</b>	CALIFORNIA										
<b>Postal Code:</b>	94080										
<b>PROPERTY NUMBERS Total: 1</b>											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td><b>Application Number:</b></td><td>10517942</td></tr></tbody></table>	Property Type	Number	<b>Application Number:</b>	10517942							
Property Type	Number										
<b>Application Number:</b>	10517942										
<b>CORRESPONDENCE DATA</b>											
Fax Number: (415)576-0300											
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone: 4155760200											
Email: pmboucher@townsend.com											
Correspondent Name: Patrick M. Boucher											
Address Line 1: Townsend and Townsend and Crew LLP											
Address Line 2: Two Embarcadero Center - 8th Floor											
Address Line 4: San Francisco, CALIFORNIA 94111											
<b>NAME OF SUBMITTER:</b>	Patrick M. Boucher										

Signature:	/patrickmboucher/
Date:	08/02/2005
<b>Total Attachments: 6</b> source=008610US#page1.tif source=008610US#page2.tif source=008610US#page3.tif source=008610US#page4.tif source=008610US#page5.tif source=008610US#page6.tif	
<b>RECEIPT INFORMATION</b>  EPAS ID: PAT45698 Receipt Date: 08/02/2005 Fee Amount: \$40	